

PERFORMANCE EXAM CHECKLIST

DETERMINATION OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS

FOP FOR AASHTO T 22

Record the symbols "P" for passing or "F" for failing on each step of the checklist.

Participant Name: _____ Exam Date: _____

Specimens

| | Trial 1 | Trial 2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| 1. Specimen verified that any diameter does not differ from any other diameter of the same cylinder by more than 2 percent? | _____ | _____ |
| 2. Verified that neither end of the specimen when tested departs from perpendicularity to the axis by more than 0.5° (2° if using neoprene caps)? | _____ | _____ |
| 3. Ends of the specimen evaluated to determine whether, sawing, grinding, or capping according to AASHTO T 231, or neoprene caps can be used? | _____ | _____ |

Neoprene Cap

| | | |
|------------------------------------------------------------------------------------------------------------|-------|-------|
| 1. Specimen ends are plane within 0.12 in. or less? | _____ | _____ |
| 2. Date that the two pads were placed in-service and number of uses recorded? | _____ | _____ |
| 3. Pads inspected for wear and removed from service when excessive wear is apparent. | _____ | _____ |
| 4. Pads are the correct shore hardness? | _____ | _____ |
| 5. Pads removed from service at a maximum of 100 uses? | _____ | _____ |
| 6. Specimen centered in both top and bottom pads? | _____ | _____ |
| 7. Specimen and pads with extrusion controllers centered on thrust (bearing) blocks, both lower and upper? | _____ | _____ |

Procedure

| | | |
|--------------------------------------------------------------------------------------------------------------|-------|-------|
| 1. Test specimens kept moist between removal from storage and testing? | _____ | _____ |
| 2. Test conducted within the specified time limits for the test age? | _____ | _____ |
| 3. Test specimen properly centered with thrust of spherically seated block? | _____ | _____ |
| 4. Spherically seated block rotated immediately prior to testing? | _____ | _____ |
| 5. Compression load applied continuously and without shock? | _____ | _____ |
| 6. The designated rate of movement maintained during the latter half of the anticipated loading phase? | _____ | _____ |
| 7. At specimen failure the maximum load carried by the specimen was recorded along with the type of failure? | _____ | _____ |

OVER

Calculations

Trial 1 Trial 2

1. Compressive strength properly determined?
2. Correction factor applied if length-to-diameter ratio is less than 1.8?

Comments: First attempt: Pass ☐ Fail ☐ Second attempt: Pass ☐ Fail ☐

Signature of Examiner_____WAQTC #:_____